

# Converting Colors

$Y_{xy}(167.1824, 0.3238, 0.4138)$

Have a look what the booklet for  
Yxy(167.1824, 0.3238, 0.4138)  
contains.

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# Color

**Yxy(98.9530, 0.3226, 0.3454)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFFFE
RGB	255, 255, 238
RGB Percent	100%, 100%, 93%
CMY	0.0002, 0.0000, 0.0667
CMYK	0.00, 0.00, 0.07, 0.00
HSL	60°, 100%, 97%
HSV	60°, 7%, 100%
XYZ	92.4211, 98.9530, 95.1141
YIQ	253.0620, 5.4570, -5.2870

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 255, 238
Decimal	16777198
CIE Lab	99.59, -2.90, 8.11
CIE LCh	100, 8.614, 109.649
Yxy	98.9530, 0.3226, 0.3454
Android (android.graphics.Color)	4294967278 (0xFFFFFFFF)
YUV	253.0620, -7.4256, 1.6996
Hunter-Lab	99.4751, -8.2394, 12.9419

# Details

The Yxy color 98.9530, 0.3226, 0.3454 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 86.5509, 0.3025, 0.3121, and the grayscale version is 98.3293, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 55.7713, 0.3246, 0.3486 is the 20% darker color. If you saturate the color by 10%, you get 97.5402, 0.3378, 0.3706, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

# Distribution



- Red (100%)
- Green (100%)
- Blue (93%)



- Red (93%)
- Yellow (100%)
- Blue (93%)



- Cyan (0%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 98.9530, 0.3226, 0.3454 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 98.9530, 0.3226, 0.3454 by changing the saturation by 10% instead.



 98.9530, 0.3226,  
0.3454

 98.9530, 0.3226,  
0.3454

556.7442, 0.3183,  
0.3382

 75.4294, 0.3235,  
0.3470

159.7147, 0.3212,  
0.3430

 55.9647, 0.3246,  
0.3489


197.7216, 0.3206,  
0.3420

 40.1746, 0.3260,  
0.3512


241.3250, 0.3201,  
0.3412

 27.6747, 0.3278,  
0.3542

290.9094, 0.3196,  
0.3404

 18.0806, 0.3300,  
0.3581

346.8591, 0.3192,  
0.3398

 11.0079, 0.3331,  
0.3634

409.5585, 0.3189,

 6.0721, 0.3374,

0.3392

0.3711

479.3921, 0.3186,  
0.3387

■ 2.8890, 0.3440,  
0.3833

■ 1.0741, 0.3617,  
0.4122

■ 98.9530, 0.3226,  
0.3454

■ 98.9530, 0.3226,  
0.3454

■ 97.5402, 0.3378,  
0.3706

100.0000, 0.3127,  
0.3290

■ 96.3382, 0.3531,  
0.3959

■ 95.3302, 0.3679,  
0.4205

■ 94.5059, 0.3817,  
0.4435

■ 93.8540, 0.3939,  
0.4637

■ 93.3621, 0.4039,  
0.4804

■ 93.0162, 0.4114,  
0.4929

■ 92.7997, 0.4162,  
0.5009

■ 92.6918, 0.4185,  
0.5048

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



98.9530, 0.3291, 0.3430



98.9530, 0.3226, 0.3454



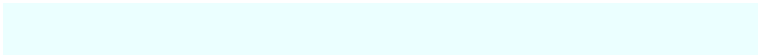
98.9530, 0.3135, 0.3432

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



98.9530, 0.3226, 0.3454



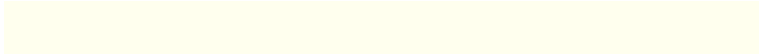
98.9530, 0.2946, 0.3206



98.9530, 0.3210, 0.3211

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



98.9530, 0.3226, 0.3454



86.5509, 0.3025, 0.3121

# Split Complementary

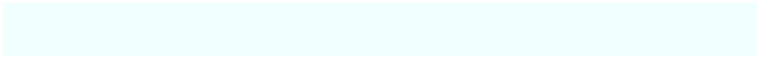
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



98.9530, 0.3117, 0.3153



98.9530, 0.3226, 0.3454



98.9530, 0.2965, 0.3149

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



98.9530, 0.3226, 0.3454



98.9530, 0.2975, 0.3288



98.9530, 0.3028, 0.3130



98.9530, 0.3282, 0.3290



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



98.9530, 0.3226, 0.3454



98.9530, 0.3073, 0.3395



98.9530, 0.3028, 0.3130



98.9530, 0.3181, 0.3189

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



98.9455, 0.3226, 0.3454



99.6736, 0.3157, 0.3339



88.5803, 0.3241, 0.3290



21.3377, 0.3155, 0.3336



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



98.9455, 0.3226, 0.3454



98.7462, 0.3246, 0.3487



97.3760, 0.3172, 0.3456



21.0885, 0.3269, 0.3525



48.4228, 0.4189, 0.5056



4.7154, 0.4190, 0.5055



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



86.5509, 0.3025, 0.3121



84.0099, 0.3003, 0.3085



88.0506, 0.3079, 0.3124



17.3798, 0.2979, 0.3044



3.7754, 0.1501, 0.0600



0.3683, 0.1502, 0.0601



# Previews

## White Background



This preview shows how the Yxy color 98.9530, 0.3226, 0.3454 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

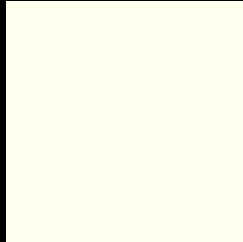
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 98.9530, 0.3226, 0.3454 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

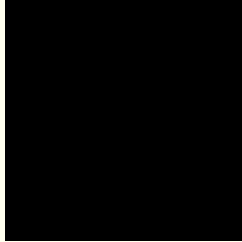
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 98.9530, 0.3226, 0.3454**

## **Background**



This preview shows how black text looks on a background with the Yxy color 98.9530, 0.3226, 0.3454.

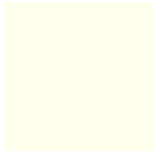


This preview shows how white text looks on a background with the Yxy color 98.9530, 0.3226, 0.3454.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

98.9530, 0.3226, 0.3454

### Protanopia

99.1719, 0.3145, 0.3309

### Deuteranopia

99.2355, 0.3139, 0.3300

## Tritanopia

99.1745, 0.3121, 0.3280

# Trichromacy



**Original Color**

98.9530, 0.3226, 0.3454

**Protanomaly**

98.8590, 0.3174, 0.3357

**Deuteranomaly**

98.9209, 0.3168, 0.3347

**Tritanomaly**

98.7940, 0.3156, 0.3338

# Monochromacy



**Original Color**

98.9530, 0.3226, 0.3454

**Achromatopsia**

98.2251, 0.3127, 0.3290

**Achromatomaly**

98.7318, 0.3162, 0.3348

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 98.9530, 0.3226, 0.3454 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 255, 238)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 238)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 255, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 98.9530, 0.3226, 0.3454 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 255, 238) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(255, 255, 238) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(255, 255, 238) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 238);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 98.9530, 0.3226, 0.3454 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 238) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
255, 238) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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